



Cottesloe substation upgrade

PROJECT UPDATE MAY 2007

Western Power is upgrading the capacity of its zone substation on Curtin Avenue, Cottesloe from 66,000 volts (66 kV) to 132,000 volts (132 kV).

The increased capacity of the substation will provide a more reliable power supply to existing residents and businesses, and will cater for the forecast growth in the area.

The project

During the past five years, the demand for electricity increased at an annual rate of more than ten per cent and is expected to continue at this level in the near future.

The upgrade work includes the installation of new equipment and the construction of transmission lines and poles. The building of a 3.0 metre high wall consisting of 2.5 metres of masonry blocks with a 0.5 metre palisade topping, enclosing the substation, starts this month for completion by October this year.

The project is expected to cost \$14.8 million.

How will the upgrade take place?

The work to upgrade the substation will take place in two-stages. Work in the first stage is expected to start this month.

The stage 1 work scheduled for completion by December 2008 includes:

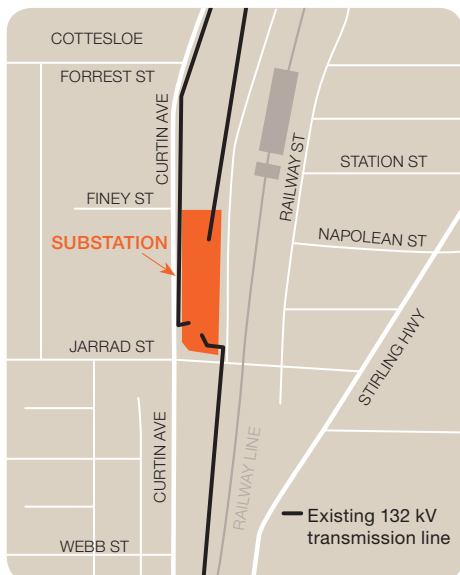
- construction of the masonry wall to enclose the substation;
- installation of two 132 kV powerlines into the substation from the existing transmission line on Curtin Avenue;
- construction of new 132 kV poles; and,
- installation of substation equipment.

The stage 2 work scheduled for completion by December 2009 includes:

- installation of more equipment;
- the 66 kV substation is shut down and removed; and
- the new 132 kV substation starts operation.

Working with the community

Western Power will ensure business and property owners near the substation are kept well informed on the progress of the project, particularly during the construction phase. Business and property owners near the substation will receive printed project updates and letters advising of forthcoming activities.



Questions and Answers



Construction of the masonry wall (above) starts this month for completion by October this year.

Proposed project timeline*

May – October 2007

Construction of masonry wall

October 2007

Upgrade work starts

December 2008

First transformer in service

December 2009

Second transformer in service

June 2010

Project completed

** subject to change*

Will the size of the substation increase?

The size of the substation increases and is contained inside the existing boundary of Western Power's property. A new masonry wall will reduce the visual impact of the bigger substation.

Will the new substation create more noise?

The new 132 kV transformers are less noisy than the existing 66 kV transformers therefore, noise from the substation is negligible.

Will there be power interruptions during the work?

Western Power expects very minor power interruptions during construction and will attempt to keep these as short as possible and during non-peak times. When power needs to be interrupted, Western Power will provide reasonable notice.

Will there be traffic disruptions?

There may be traffic delays in the area during the installation of the new poles. Any delays will be kept to a minimum and Western Power will safely manage traffic flow in the area. You will be advised before any traffic disruption takes place.

When will the work take place?

Construction work will take place between 7 am and 5 pm. If work is conducted on weekends or outside of these hours, Western Power will provide reasonable notice.

Will the new substation emit Electromagnetic Fields (EMF)?

Levels of electromagnetic fields are contained within existing regulatory standards at the substation and are well below these standards outside the site.

As you move away from the substation, EMF levels dissipate to negligible levels that are lower than many common household items such as alarm clocks and computer screens.

For more information about EMF levels, go to Western Power's website: www.westernpower.com.au/downloads/pdf/emf.pdf

Could the new powerlines be placed underground?

Burying the new transmission powerline is uneconomic. It would increase the cost of the new substation by seven to ten times which would result in severe cutbacks to many other projects planned around the State.

Are more upgrades of the substation planned?

When the current upgrade work is completed, the capacity of the new 132 kV substation is sufficient to meet forecast demand for power until 2025.

If the capacity of the new substation has to be increased before 2025, a third transformer would be installed.

Contact

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